website : http://www.LGEservice.com
e-mail : http://LGEservice.com/techsup.html

WASHING MACHINE
SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLE CORRECTLY BEFORE OFFERING SERVICE.

WD-12480S/N/T
WD-12490S/N/T
MODEL : WD-10480S/N/T
WD-80480S/N/T
WD-10490S/N/T
WD-80490S/N/T

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LG Electronics Inc.

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1. SPECIFICATIONS

<table>
<tr><td colspan="2">ITEM</td><td>WD-12480S
WD-10480S
WD-80480S
WD-10490S
WD-80490S
WD-12490S</td><td>WD-12480N
WD-10480N
WD-80480N
WD-10490N
WD-80490N
WD-12490N</td><td>WD-12480T
WD-10480T
WD-80480T
WD-10490T
WD-80490T
WD-12490T</td></tr>
<tr><td colspan="2">POWER SUPPLY</td><td colspan="3">220-240V~, 50Hz</td></tr>
<tr><td colspan="2">PRODUCT WEIGHT</td><td>52kg</td><td>57kg</td><td>64kg</td></tr>
<tr><td rowspan="4">ELECTRICITY CONSUMPTION</td><td>WASHING</td><td colspan="3">190W</td></tr>
<tr><td>SPIN (800rpm)</td><td colspan="3">300W</td></tr>
<tr><td>DRAIN MOTOR</td><td colspan="3">32W</td></tr>
<tr><td>WASH HEATER</td><td colspan="2">1900W</td><td>2000W</td></tr>
<tr><td rowspan="3">REVOLUTION SPEED</td><td>WASH</td><td colspan="3">50rpm</td></tr>
<tr><td rowspan="2">SPIN</td><td colspan="2">WD-80480S/N/T, WD-80490S/N/T</td><td>400/800rpm</td></tr>
<tr><td colspan="2">WD-10480S/N/T, WD-10490S/N/T</td><td>400/800/1000rpm</td></tr>
<tr><td colspan="2">OPERATION WATER PRESSURE</td><td colspan="3">0.3-10kgf/cm^2 (30-1000kPa)</td></tr>
<tr><td colspan="2">CONTROL TYPE</td><td colspan="3">Electronic</td></tr>
<tr><td colspan="2" rowspan="2">WASH CAPACITY</td><td>3.5kg</td><td>5.0kg</td><td>7.0kg</td></tr>
<tr><td>Synthetic(1.5)
Delicate(1.0)
Baby Care(3.0)
Hand Wash/Wool(1.0)
Quick 30(1.0)</td><td>Synthetic(1.7)
Delicate(1.5)
Baby Care(4.0)
Hand Wash/Wool(1.5)
Quick 30(1.5)</td><td>Synthetic(3.0)
Delicate(2.0)
Baby Care(6.0)
Hand Wash/Wool(2.0)
Quick 30(2.0)</td></tr>
<tr><td colspan="2">DIMENSION</td><td>600mm(W) x360mm(D) x850mm(H)</td><td>600mm(W) x440mm(D) x850mm(H)</td><td>600mm(W) x550mm(D) x850mm(H)</td></tr>
<tr><td colspan="2">WASH PROGRAM</td><td colspan="3">Cotton, Synthetic, Delicate, Hand Wash/Wool, Baby Care, Quick 30, Rinse+Spin, Spin</td></tr>
<tr><td colspan="2" rowspan="2">OPTION</td><td>WD-10480S/N/T, 10490S/N/T</td><td colspan="2">Rinse$^+$, Pre Wash, Crease Care, Bio, Time Save, Time Delay</td></tr>
<tr><td>WD-80480S/N/T, 80490S/N/T</td><td colspan="2">Rinse$^+$, Pre Wash, Time Save, Time Delay</td></tr>
<tr><td colspan="2">DOOR SWITCH TYPE</td><td colspan="3">Bi-Metal type</td></tr>
<tr><td colspan="2">WATER LEVEL</td><td colspan="3">9 steps (by sensor)</td></tr>
<tr><td colspan="2">SENSING OF THE LAUNDRY AMOUNT</td><td colspan="3">Adopted</td></tr>
<tr><td colspan="2">FUZZY LOGIC</td><td colspan="3">Adopted</td></tr>
<tr><td colspan="2">DISPLAY OF THE REMAINING TIME</td><td colspan="3">Adopted</td></tr>
<tr><td colspan="2">ERROR DIAGNOSIS</td><td colspan="3">10 items</td></tr>
<tr><td colspan="2">POWER AUTO OFF</td><td colspan="3">Adopted</td></tr>
<tr><td colspan="2">CHILD LOCK</td><td colspan="3">Adopted</td></tr>
<tr><td colspan="2">AUTO RESTART</td><td colspan="3">Adopted</td></tr>
</table>

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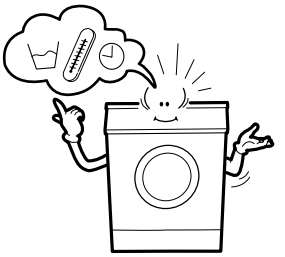
2. FEATURES & TECHNICAL EXPLANATION

2-1.FEATURES

■ Anti - Crease Function

With the alternate rotation of the drum, creasing in the laundry is minimized.

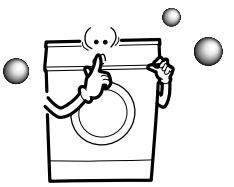


■ More economical by Fuzzy Logic System

FUZZY Logic System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.

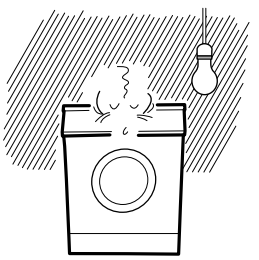
■ Child-Lock

The Child-Lock system has been developed to prevent children from pressing any button (except Power button) to change the programme during operation.



■ Low noise speed control system

By sensing the amount of load and balance, this system automatically distributes load evenly to minimize the spinning noise level.



■ Auto Restart

Auto Restart allows the program to restart all by itself in case of power failure. It does from the stage where it stopped. It will be also the same when washer is plugged in after unplugging.

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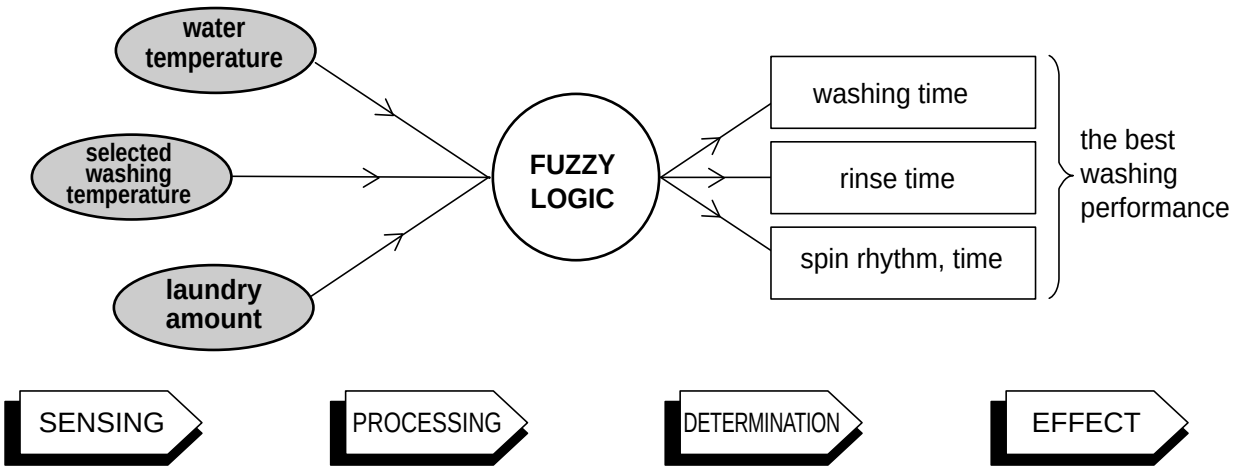
2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



2-3.WATER LEVEL CONTROL

- This model adopts a pressure sensor which can sense the water level in the tub.
- When the water level reaches to the preset level the water supply is stopped, then the washing program proceeds.
- Spinning does not proceed until the water in the tub reduces a certain level.

2-4.THE DOOR CAN NOT BE OPENED

- While program is operating.

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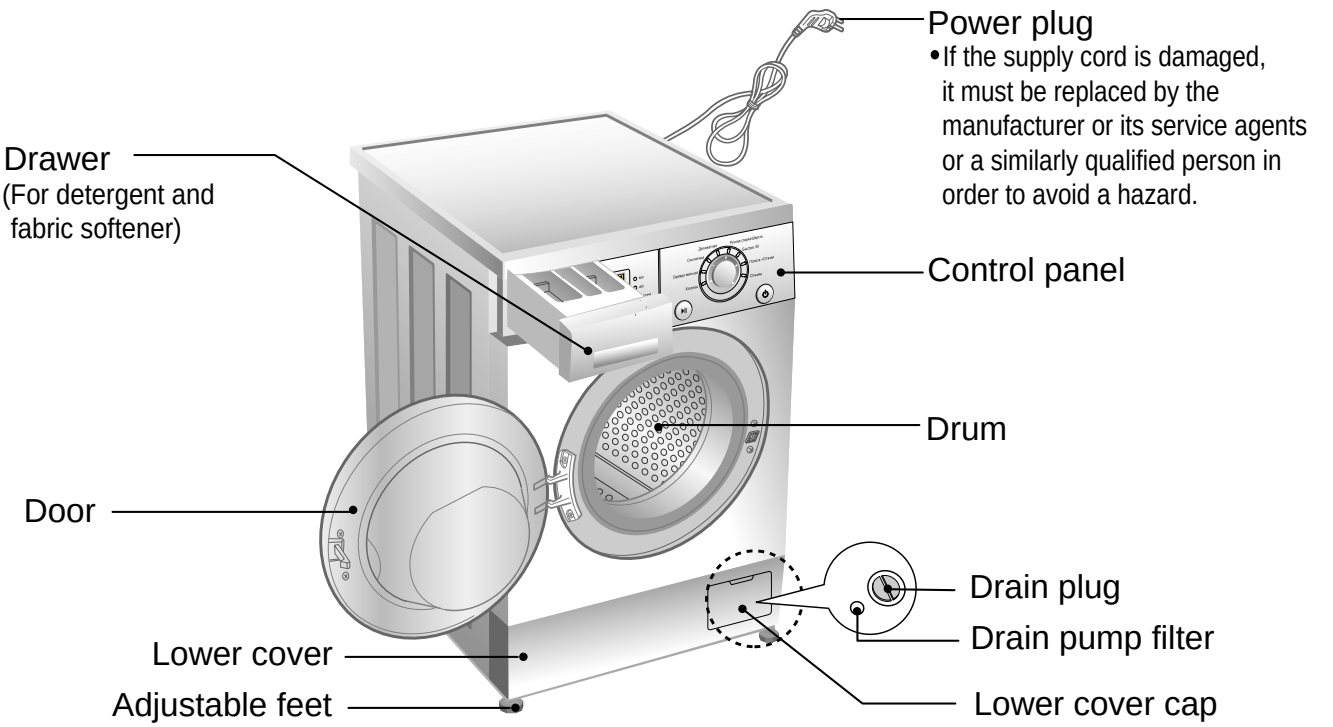
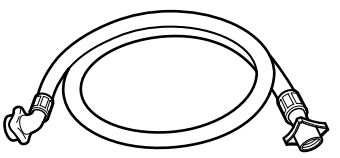
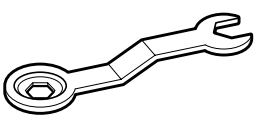
3. PARTS IDENTIFICATION


Power plug
•If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or a similarly qualified person in order to avoid a hazard.
Drawer
(For detergent and fabric softener)
Control panel
Drum
Door
Drain plug
Drain pump filter
Lower cover
Lower cover cap
Adjustable feet

■ACCESSORIES



Cold (1EA)
※ Option : Hot/Cold (2EA)



Wrench

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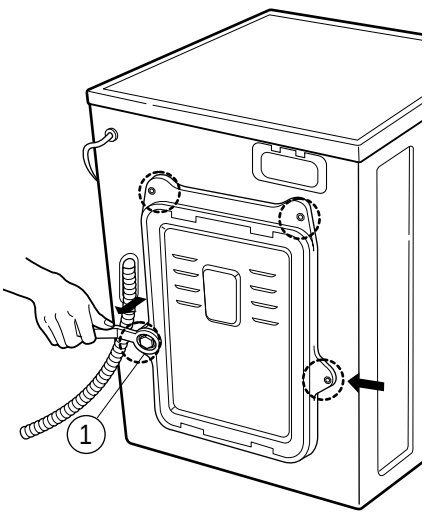
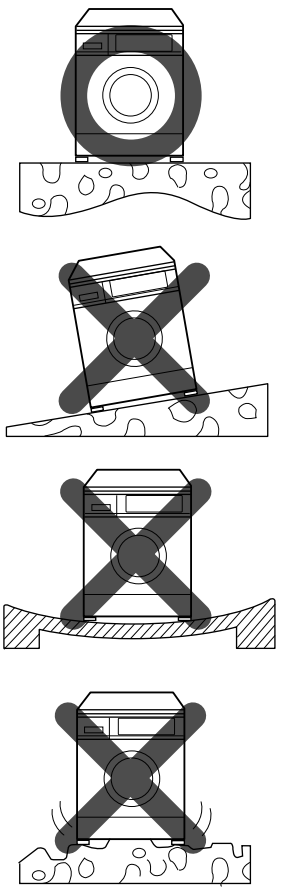
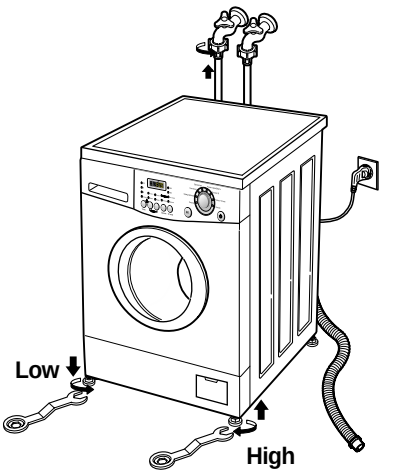
4. INSTALLATION

1 Before servicing ask the customer what the trouble is.
2 Check the adjustment (power supply is 220-240V, remove the transit bolts....)
3 Check the troubles referring to the troubleshooting.
4 Decide service steps referring to disassembly instructions.
5 Then, service and repair.
6 After servicing, operate the appliance to see whether it works O·K or NOT.

■ STANDARD INSTALLATION

The appliance should be installed as follows.

REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
• Remove the transit bolts (4EA: ①) with supplied wrench. • Keep the transit bolts and wrench for future use. • Insert the 4 caps provided into the hole. 		• Turn the adjustable feet to set the appliance horizontally.  • The appliance goes up by rotating the feet clockwise. • The appliance comes down by rotating the feet counter-clockwise.

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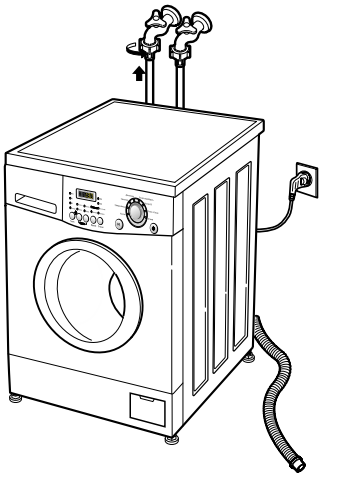
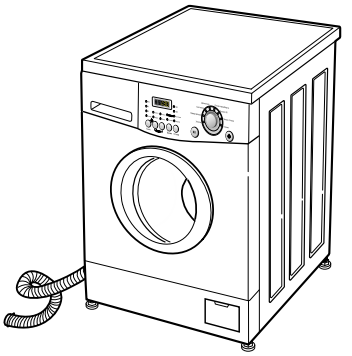
■ HOW TO CONNECT INLET HOSE

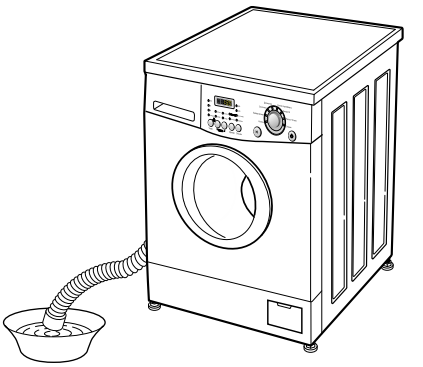
- Check that the rubber washer is the inside of the valve connector.
- Connect inlet hose firmly to prevent leak.



■ CONNECT DRAIN HOSE



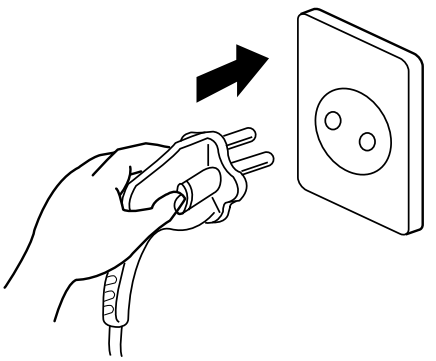
· Make sure that the hose is not twisted.



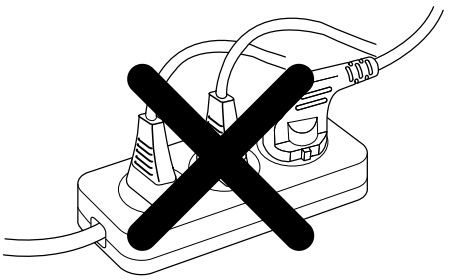
· Avoid submerging the end of the hose.

※ The drain hose should be placed under 100cm from the floor.

■ CONNECT POWER PLUG



· Connect the power plug to the wall outlet.



· Avoid connecting several electric devices,
It may be the cause of a fire.

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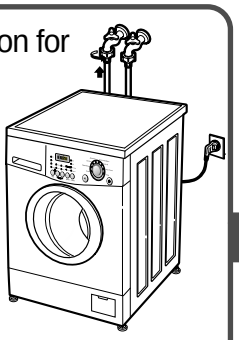
7 TEST OPERATION

1 Preparation for washing.



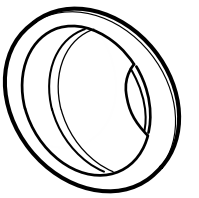
- Connect the power plug to the outlet.
- Connect the inlet hose.

2 Press the power button.

- In case of cotton program.

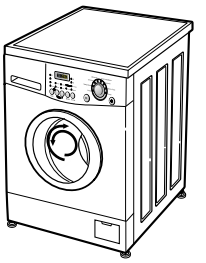
3 Press the START/PAUSE button.

4 Check the water supply.



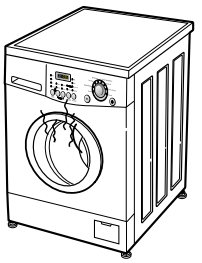
· Check if water is supplied through the detergent dispenser.

5 Check automatic reverse turn.



· Check if the drum rotates clockwise and counterclockwise.

6 Check the water heating.



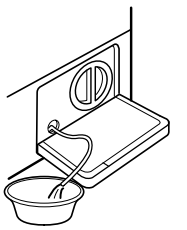
7 Check drain and spin

· Press the Start/Pause button after selecting Pump button by pressing Program button.

8 Power off and open the door

· Power off and then power on.
· Check if the door can be opened after 2 minutes.

9 Water removal



· If SVC is needed during check, remove the remaining water by pulling out the hose cap.

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5. OPERATION

Option

Rinse+ :
- Used to additional rinse, which may assist in removing traces of detergent residue.
- By selecting Rinse+ function, the rinse time and the rinse water are increased.

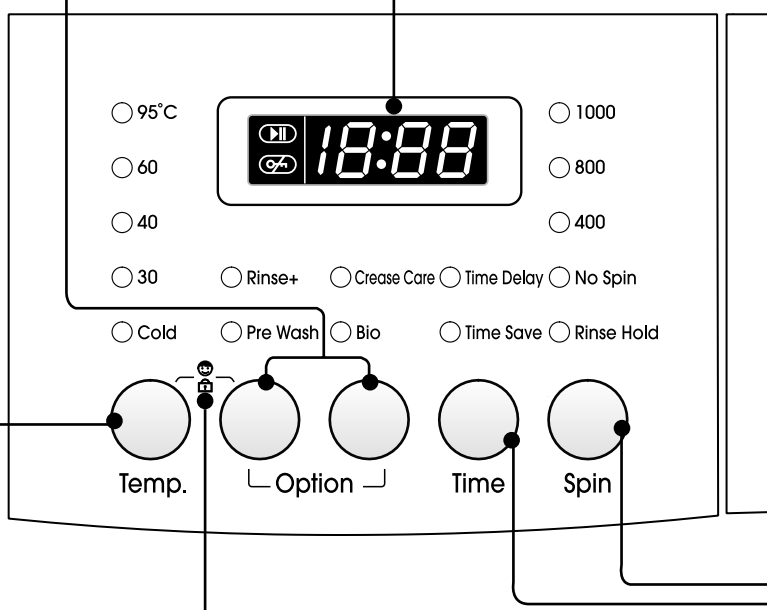
Pre Wash :
- If the laundry is heavily soiled, “Pre Wash” course is effective.
- Pre Wash is available in Cotton and Synthetic Program.

Crease Care :
- If you want to prevent crease, select this button with spin speed.

Bio :
- If you want to eliminate protein stains(milk, blood, chocolate...), you may select Bio by pressing the option button.[You can select Bio when temperature is higher than 60°C in Cotton, Synthetic and Baby Care.]

LED display

- Display the estimated remaining time (Hour:Minute) to finish.
- In case of abnormal operation, error indications are dispayed. (IE, OE, UE, dE, tE, FE, PE)
- See troubleshooting guide.



Water temperature selector

- Press the button to select water temperature.
- The water temperature [60°C ➔ 95°C➔ Cold ➔ 30°C ➔ 40°C] can be selected in Cotton.
- 95°C is selected for Cotton and Baby Care.

Child - lock

NOTE

If the Program lamps are blinked at the same time after the power off or the end of the washing, the child lock mode is set. Cancel the child lock mode by pressing the [Temp.] and the [Option] button simultaneously for 3 seconds.

- Child Lock system can be set and canceled by pressing both [Temp.] and [Option] button simultaneously for 3 seconds.
- Once Child Lock is set, all buttons are not functioning except power button.
- Child Lock system can be set anytime even during Power-off and operation.
- It is automatically cancelled when an operational error occurs.

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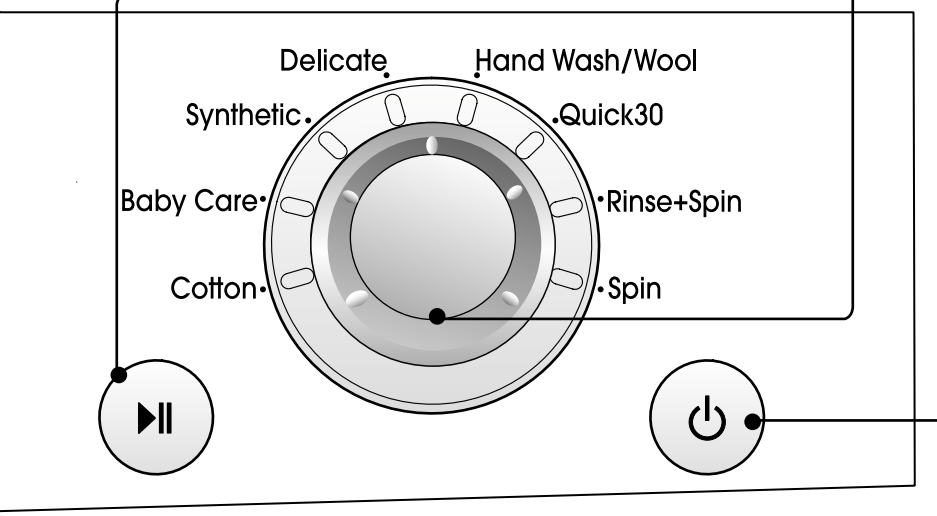
Start/Pause button

- Use the button to start or pause wash cycle.
- The power turn off automatically 4 minutes after the pause button is pressed.

Wash program selector

- 8 programs can be set depending on the type of the laundry.
- By turing the dial (pressing the button : WD-10490S/N/T, WD-80490S/N/T)
  [Cotton ➔ Baby Care ➔ Synthetic ➔ Delicate ➔ Hand Wash/Wool ➔ Quick 30 ➔ Rinse+Spin ➔ Spin] can be selected.



Power button

- Press the button to turn on and off.

Time

Time Save :

- By selecting the Time Save option, the wash time may be reduced, depending on the program selected.

Time Delay :

- Press the button when reservation washing is needed.
- When the button is pressed, [3:00] is displayed, maximum delay of [19:00] hours can be set.
- Each press advances time delay by the hour.
- Use [Power] button to cancel [Time Delay]
- [Time Delay] means the time required from the present to the completion of washing.

Spin

- WD-10480S/N/T
  WD-10490S/N/T
  Rinse Hold ➔ No Spin ➔ 400 ➔ 800 ➔ 1000
- WD-80480S/N/T
  WD-80490S/N/T
  Rinse Hold ➔ No Spin ➔ 400 ➔ 800

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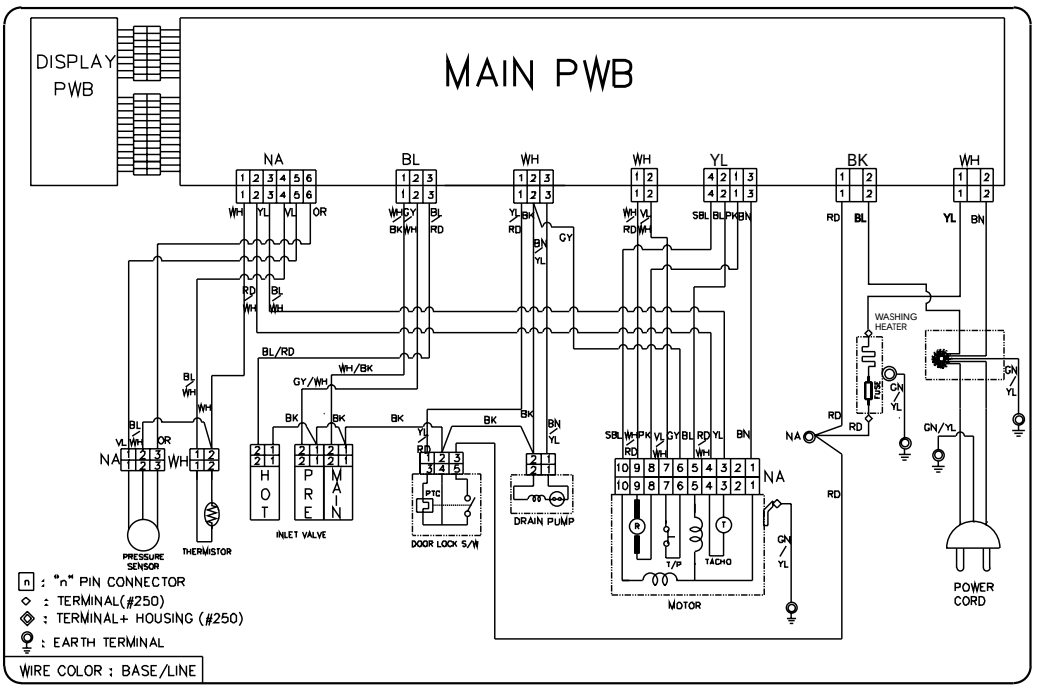
6. WIRING DIAGRAM / PROGRAM CHART



*Water Supply A S W * Intermitt Spin : * Disent Angle : D

COURSE / STEP	Washing: Pre — WÆS	Washing	Drain	IÆS	Washing: Main — WÆS	Heating	Washing	Staycooling: WÆS	Rinsing	Drain	Rinse: Normal 1 — Drain	IÆS	WÆS	Rinsing	Normal 2 — Drain	IÆS	WÆS	Rinsing	Normal 3 — Drain	IÆS	WÆS	Rinsing	Rinse + 4 — Drain	IÆS	WÆS	Rinsing	Spin — Drain	Spin	DÆT	END	AUTOOFF	Normal Working Time (Hour:Minute)
STEP	2	3	4		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	20	20	
Time (SEC)	120	MIN	60	240	120		MIN	120	60	60	60	240	120	360	60	240	120	360	60	240	120	360	60	240	120	360	60	480	120	20	20	
Cotton	8						58																								About 2:57(54)
Synthetic							95																								About 2:10(07)
Delicate							4 24																								About 1:03
Baby Care							4 18																								About 2:57(54)
Handwash/Wool							4 18																								About 1:09
Quick 30							24																								About 30
Rinse + Spin																															About 22(19)
Spin																															About 14(11)

✻ ( ) : WD-8048(9)0S/N/T

* ■■■■ Basic Cycle
* ▒▒▒▒ Optional Cycle
* Pre-Setting Time : Water Supply - 120 sec. * Basic time is minute i
Drain - 60 sec. * The
* ~ Time for varies as the temperature or the amount of laundry water temperature or ambient te

✻ **Pre Wash :** •If the laundry is heavily soiled, “Pre Wash” course is effective.

✻ **Time Save :** • This option can be used to reduce the time of a wash program.
• To use this option press the Time Save button once before the wash program is started.
• This option is not available with Quick 30 program.

✻ **Rinse+ :** • Used to additional rinse, which may assist in removing traces of detergent residue.
• By selecting Rinse^{+} function, the rinse time and the rinse water are increased.

✻ **Crease Care :** • If you want to prevent crease, select this button with spin speed.

✻ **Bio :** • If you want to eliminate protein stains (milk, blood, chocolate...), you may select Bio function by pressing the option button.

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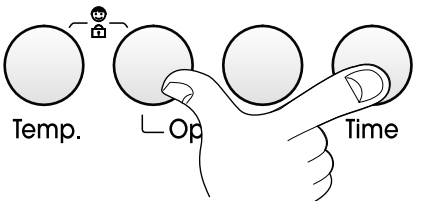
7. TROUBLESHOOTING

7-1. BEFORE PERFORMING SERVICE

- Be careful of electric shock or disconnecting the parts while troubleshooting.
- Voltage of each terminal in 220-240V~ and DC while applying an electric current.

7-2. QC TEST MODE.

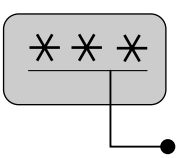
① Pressing **Option** and **Time** button simultaneously.
② Power supply ON with pressing upper two button.
③ Press the START/PAUSE button as follows.
[Press the START/PAUSE button more 4 times until stop spinning**]**



Pressing number of [START/PAUSE] button	Checking Point	
None	All lamps turn on	
1 time	Clockwise spin (right)	Motor rpm (About 45)
2 times	Low speed Spin	Motor rpm (About 63~67)
3 times	High speed Spin	Motor rpm (About 79~85) : WD-80480S/N/T, 80490S/N/T
		Motor rpm (About 95~106) : WD-10480S/N/T, 10490S/N/T
4 times	Inlet valve for pre-wash operation	Water level frequency (25~65)
5 times	Inlet valve for main-wash operation	Water level frequency (25~65)
	Hot inlet valve in case of hot water fill	
6 times	Inlet valve for main-wash operation	Water level frequency (25~65)
7 times	Counterclockwise spin (left)	Motor rpm (About 45)
8 times	A Heater is in operation for 3 sec.	Water Temperature
9 times	Draining pump operation	Water level frequency
10 times	Auto off operation	

7-4.HOW TO KNOW THE WATER LEVEL FREQUENCY

✻ Press the **Temp.** and **Spin** button simultaneously.



The digits means water level frequency (10^{-1}kHz)

ex) 241 : Water level frequency = 241× 10^{-1}kHz
=24.1kHz

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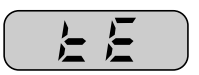
7-5.ERROR DISPLAY.

¥ If you press the [Start/Pause] button when an error is displayed, any error except **S/W ERROR** will disappear and the machine will change into pause status.

¥ In case of 『 PE 』, 『 tE 』, 『 dE 』, if the error is not resolved within 20 sec. In the case of other errors, if the error is not resolved within 4 min. power will be turned off automatically and the error code will be blinked. But in case of 『 FE 』, power will not be turned off.

	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR		○ Water has not reached to the pre-set level within 4 min. since inlet valve operated, or water has not reached to the normal level within 25 min.
2	IMBALANCE ERROR		○ The appliance is tilted. ○ Laundry is gathered to one side. ○ Non distributable things are put into the drum.
3	DRAIN ERROR		○ Water has not drained enough within 5 min.
4	OVERFLOW ERROR		○ Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR		○ The sensor pressure switch is out of order.
6	DOOR OPEN ERROR		○ The [Start/Pause] button is pressed with the door open. ○ The door switch is out of order.
7	HEATING ERROR		○ The thermistor is out of order.

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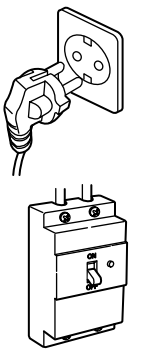
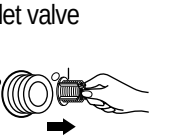
8. ERROR DIAGNOSIS AND CHECK LIST

8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

<table>
<tr><th>SYMPTOM</th><th>GUIDE FOR SERVICE CALL</th></tr>
<tr><td>NO POWER</td><td>Is the power plug connected firmly to 220-240V~ outlet?
YES
Power failure? or Breaker opened?
Is the outlet controlled by a switch.
NO
Visit to check
  </td></tr>
<tr><td>Water inlet trouble
 </td><td>Is displayed?
YES
Is the tap opened?
YES
Is the tap frozen?
NO
Is the water supply shut-off?
NO
Is filter in the inlet valve clogged with foreign material?
YES
Clean the filter of inlet valve
NO
Visit to check

  </td></tr>
</table>

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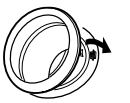
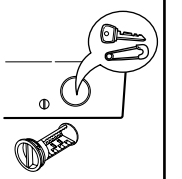
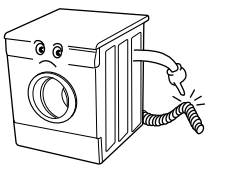
SYMPTOM	GUIDE FOR SERVICE CALL
◦ DOOR OPEN ERROR Refer to 7-3 ERROR DISPLAY	Did you press the **Start/Pause** button when the door is open? **YES** → Close the door  **NO** → Visit to check **Check if the door switch is O.K**
◦ Drain Trouble 	Is displayed? **YES** → Is the debris filter clogged with foreign material such as pins, coins, etc.? **YES** → Clean up the filter.  **NO** → Is the drain hose frozen with water, kinked, or crushed?  **NO** → Visit to check

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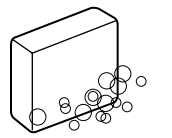
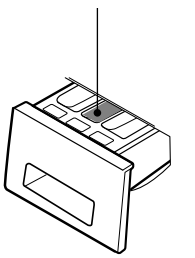
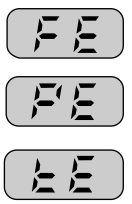
SYMPTOM	GUIDE FOR SERVICE CALL
◦ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is low-sudsing detergent for the durm washing machine used? YES Is the proper amount of detergent used as recommended? YES Recommend to reduce the amount of detergent.  LOW SUDSING DETERGENT ✳ This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ✳ When much suds are sensed, the suds removing fuction such as drain, water input, and pause will operate without rotating the drum.
◦ No effect of softener	Is softener put in the correct compartment of drawer? YES Is the drawer closed during wash? YES Is the softener cap clogged? YES Explain how to use softener **Clean the compartment for softener** Compartment for softener 
	Visit to check

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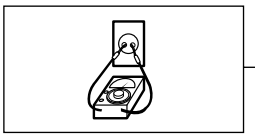
8-2.FAULT DIAGNOSIS AND TROUBLESHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while troubleshooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. If you replace the PWB assembly (Main), put in the connectors correctly.

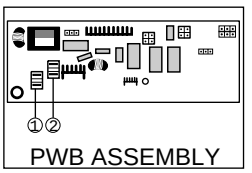
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V?

NO → Check the fuse

YES



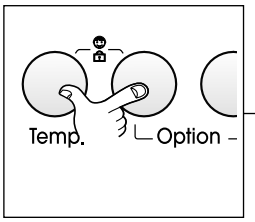
When measuring the voltage of pin ①, ② of the PWB assy, is the voltage AC 220-240V?

NO → Check the harness Assembly.

YES

Replace PWB assembly.

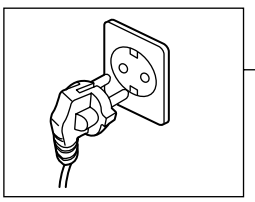
ALL BUTTONS ARE LOCKED EXCEPTOR FOR POWER BUTTON



Does the Child-Lock is set?

YES → Cancle the Child-Lock by pressing [Temp.] and [Option] Buttons simultaneously for 3 seconds.

NO



First, unplug the power cord and plug again. Check the buttons are working.

YES → Normal

NO

Visit to check

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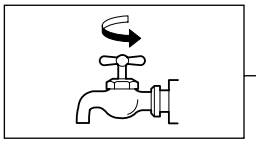
NO WATER SUPPLY

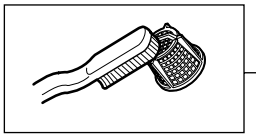


Is the water supply shut-off?

NO

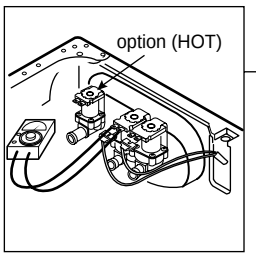
Is the tap opened? — **NO** → Open the tap.

YES



Is the inlet valve filter clogged with impurity? — **YES** → Clean the filter.

NO

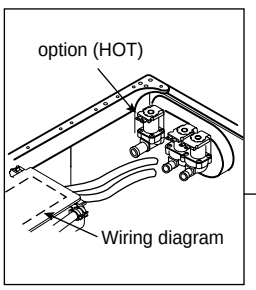


Is resistance of the inlet valve connector between the 2 to 8 kΩ? — **NO** → Replace the inlet valve.

YES

Check the voltage between each terminals of inlet Valve is 220 - 240V~.
(Refer to 7-2 TEST MODE) — **NO** → Replace PWB assembly

DETERGENT DOES NOT FLOW IN

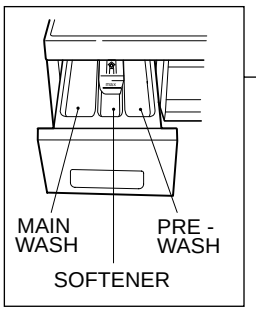


Is water supplied? — **NO** → Refer to solution 「NO INLET」

YES

Are receptacles correctly connected to the terminals of inlet valve? — **NO** → Check the wiring on the dispenser.

YES



Is detergent put in the correct compartment of the drawer? — **NO** → Put the detergent in the correct position

PRE+MAIN ● ● ●

MAIN WASH ● : Detergent ● ● ●

YES

Is the detergent caked or hardened? — **YES** → Clean the drawer.

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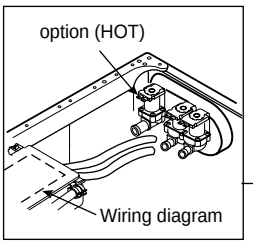
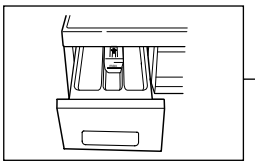
SOFTENER DOES NOT FLOW IN

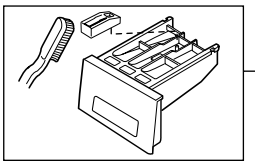


Is water supplied?
- NO → Refer to 「NO WATER SUPPLY」
- YES ↓

Are receptacles correctly connected to the terminals of inlet valve?
- NO → Check the wiring on the dispenser.
- YES ↓

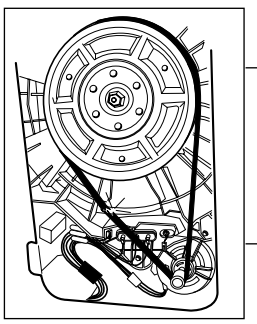


Is softener put in the correct compartment of drawer?
- NO → Put it in the correct compartment.
- YES ↓



Is the softner cap clogged?
- YES → Clean the cap and drawer.

ABNORMAL SOUND



Is the pulley bolt loosened?
- YES → Fix the bolt tightly.
- NO ↓

Is the belt worn?
- YES → Replace the V-belt (4400FR3116B)
- NO ↓

Is there friction noise from the motor?
- YES → Replace the motor.

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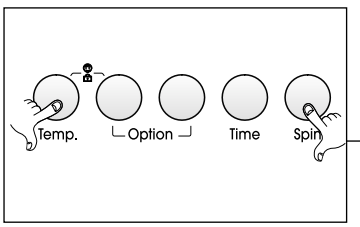
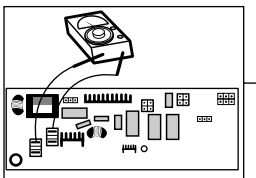
HEATING WITHOUT WATER



When pressing [Spin] and [Temp.] at the same time after draining, is the water level frequency 252 or more?
When pressing [Spin], [Temp.] buttons at the same time while wash, is the water level frequency between 230 - 245V~?

NO → Replace the sensor (pressure).

YES

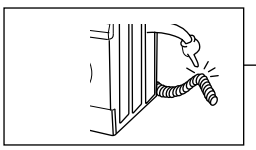


PWB ASSEMBLY

Checking voltage between two pins as press the power button is the voltage 220-240V~?

NO → Replace the PWB Assembly.

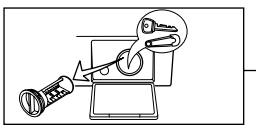
DRAIN MALFUNCTIONING



Is the drain hose twisted or frozen?

YES → Repair drain hose

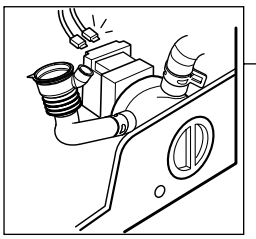
NO



Is the impeller of the drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected, disassembled?

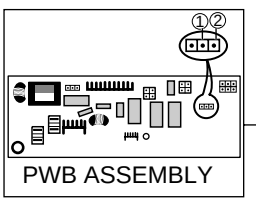
YES → Reconnect or repair the connector

NO

Is the coil of drain pump cut-off? (resistance of coil is 90~160Ω)

YES → Replace the pump assembly

NO



PWB ASSEMBLY

When checking voltage between connectors (①, ②)on spinning, is the voltage 220 - 240V~ as the figure?

NO → Replace the PWB

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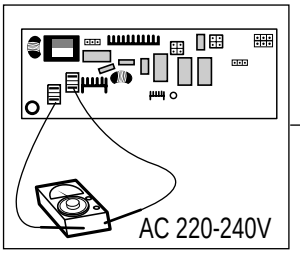
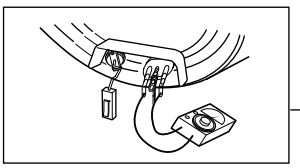
WASH HEATER TROUBLE



When checking the voltage between connector the PWB assembly (Main)during Cotton 95°C washing ,Is the voltage 220 - 240V ~?

NO → Replace the PWB assembly (Main)

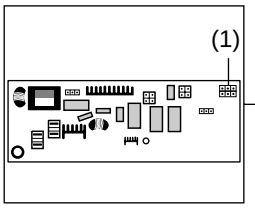
YES



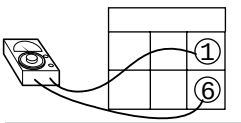
After power off and the heater terminal is disconnected, is the resistance 10 to 30Ω?

NO → Replace the heater assembly

HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE

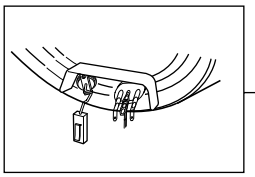


When disconnecting the connector (1) on the PWB assembly (Main) is the resistance of the Natural connectors [①(Blue White), ④(White)] between 2.5kΩ to 180kΩ(105°C~0°C)?



NO → Replace the thermistor

YES



When checking thermistor on the tub, is the thermistor loosened above 2mm from the rubber?

YES → Push the thermistor tightly to the rubber.

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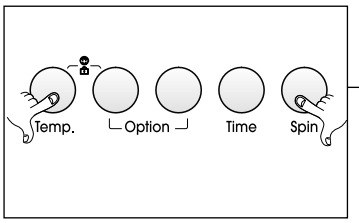
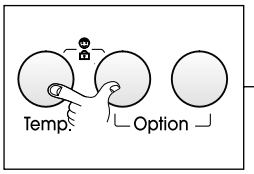
SPIN TROUBLE



While spinning, is the frequency of the water level 248 or more. The frequency can be checked by pressing the [Spin] and [Temp.] buttons at the same time on the program.

NO → Check the sensor (Pressure) or hose (Sensor). If the problem is on the sensor or the hose, replace the sensor or the hose.

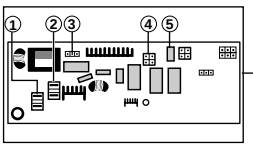
YES



Press [Power] button with [Temp] and [Option] buttons pressed after power off. Press [Start/Pause] button 2 times. Does the drum rotate at low spin speed?

YES → Normal

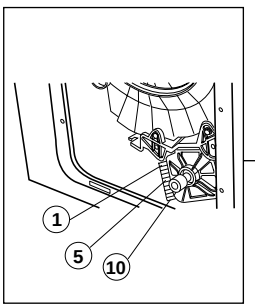
NO



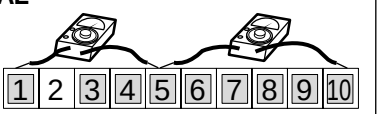
Is it disconnected or badly contacted?
[White : 2 pin (①), Black : 2 pin (②), White : 3 pin (③), Blue : 4 pin (④), White : 4 pin (⑤)]

YES → Reconnect or repair it.

NO



Check the motor connector, Is the resistance between the terminal in figure the same as below?
Resistance between terminals
① ~ ⑤ : 0.5 ~ 1.0Ω
⑤ ~ ⑩ : 1.5 ~ 2.5Ω
Be sure to unplug the machine before measuring.
MOTOR TERMINAL



NO → Replace the motor assembly.

YES

Replace the PWB assembly.

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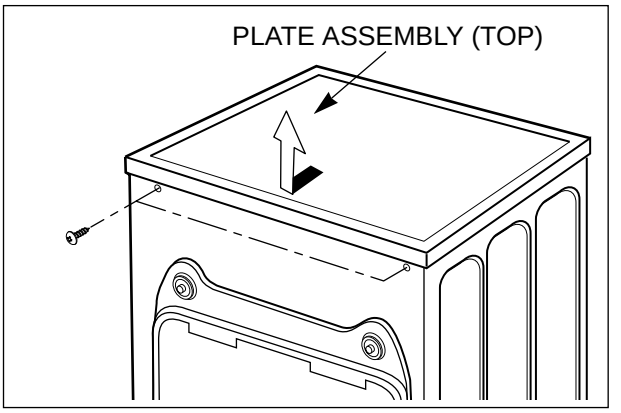
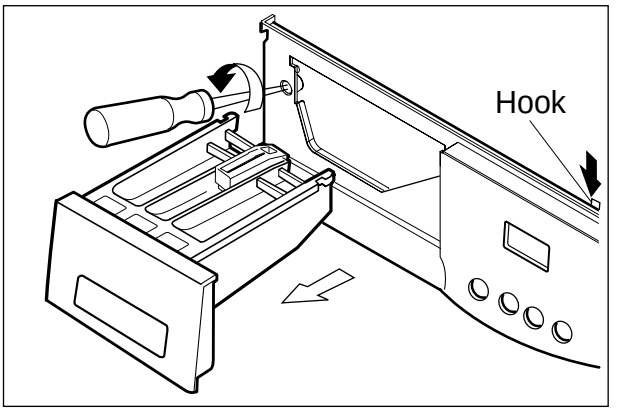
9. DISASSEMBLY INSTRUCTIONS

✻ Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

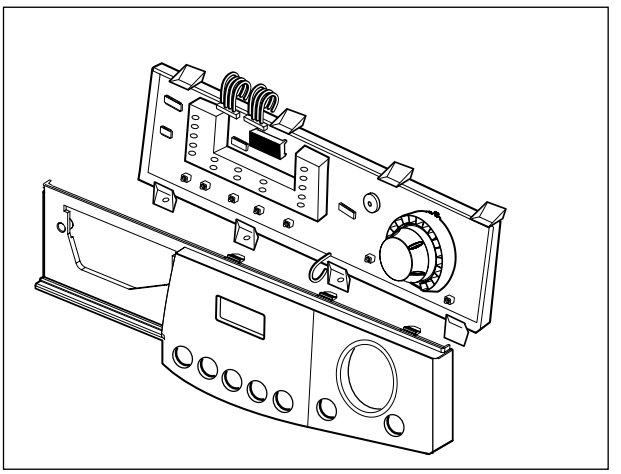
CONTROL PANEL



① Unscrew 2 screws on the back of the top plate.
② Pull the top plate backward and upward as shown.



① Disconnect the PWB Assembly connector from Main lead wire Assembly.
② Pull out the drawer and unscrew 2 screws.
③ Push upper hooks down on the top and pull the control panel.



① Disconnect the PWB assembly from the control panel by unscrewing 5 screws.

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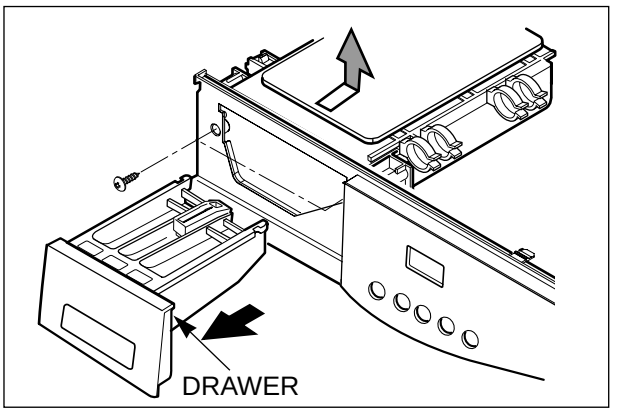
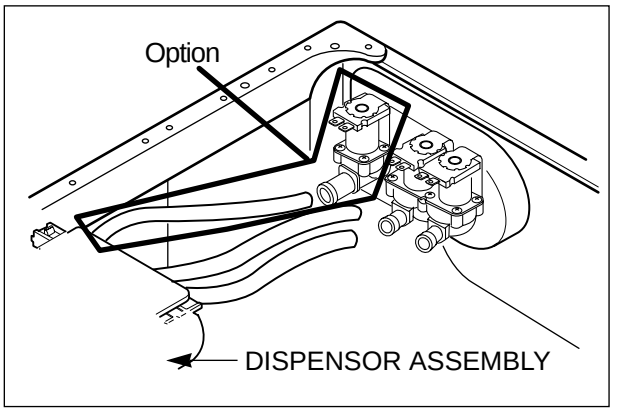
DISPENSER ASSEMBLY



① Disassemble the top plate assembly.
② Pull out the drawer to arrow direction.
③ Unscrew 2 screws.



① Disassemble hose and its clamps.
② Disassemble ventilation bellows and water inlet bellows on the tub.

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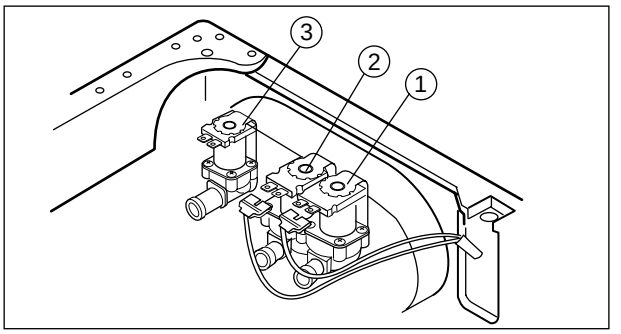
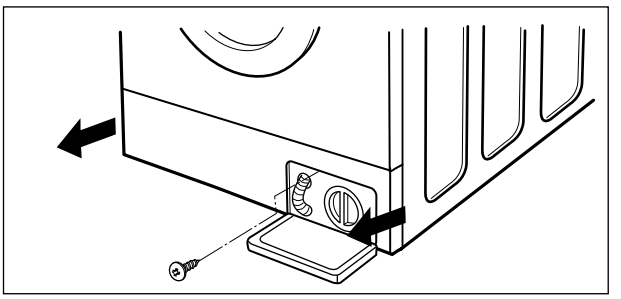
INLET VALVE



① Disconnect the wiring receptacle.
② Unscrew 2 screws from the back.
※When reconnecting the connector

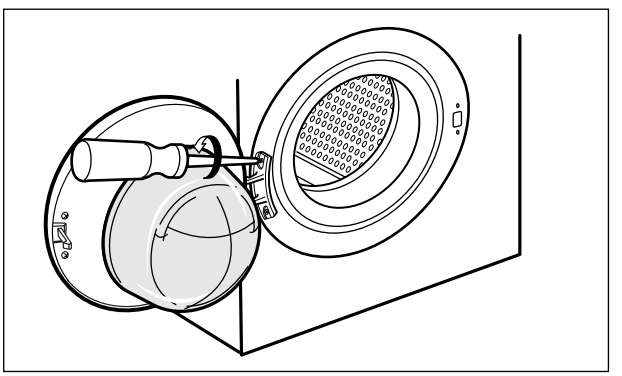
VALVE #1 (MAIN)	White/Black-Black
VALVE #2 (PRE)	Black - Gray
VALVE #3 (HOT)	Blue/White - Black

LOWER COVER



■ Open the lower cover cap by using coin and pull out the lower cover to the arrow direction after a screw is unscrewed.

DOOR



① Open the door completely.
② Remove the two screws from the hinge.
※When removing the door assembly, it is necessary to hold the bracket that is inner of the cabinet cover.

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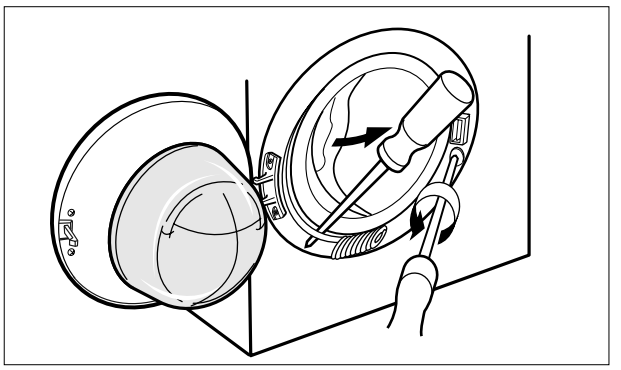
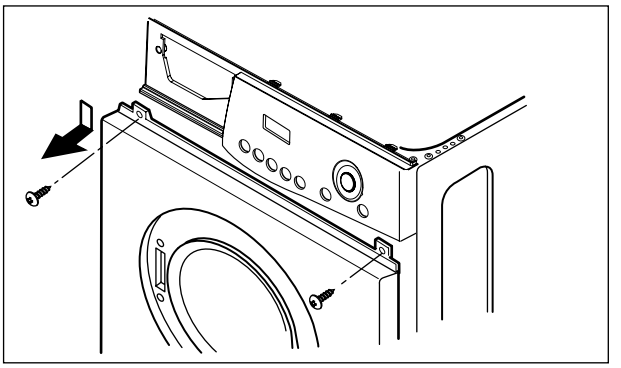
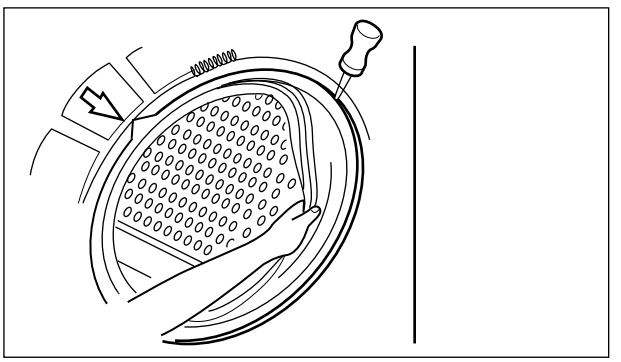
GASKET ASSEMBLY



① Take apart the cabinet gasket clamp.
② Unscrew 2 screws from the cabinet cover.
③ Open the lower cover cap and unscrew 1 screw inside.
④ Take apart the lower cover.



① Disassemble the cantrol panel. (refer to the page 25)
② Unscrew all the screws on the upper and lower sides of the cabinet cover.



① Take apart the tub gasket clamp.
② Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.
※Refer to the arrow mark on the tub cover.

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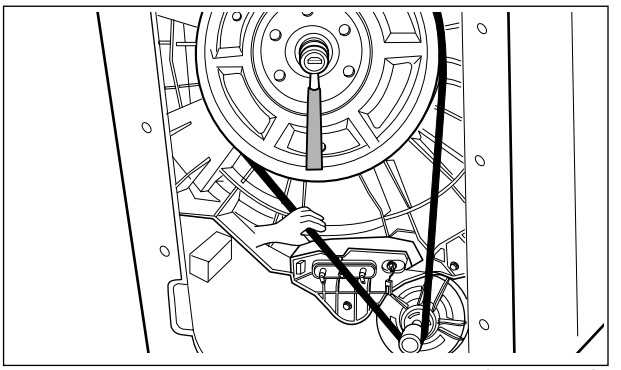
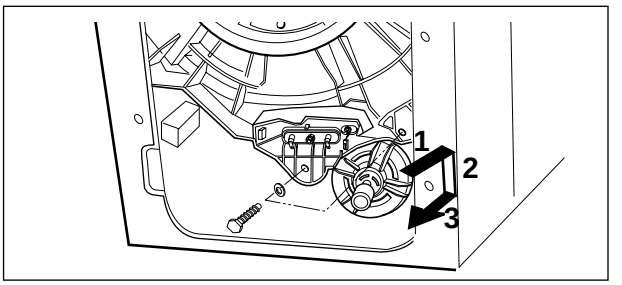
PULLEY, MOTOR, DAMPER



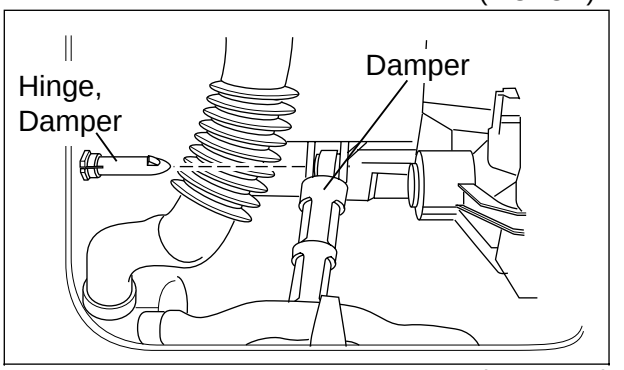
(PULLEY)

① Remove the back cover.
② Take off the belt turning the pulley.
③ Unscrew the bolt to pull out the pulley.



(MOTOR)

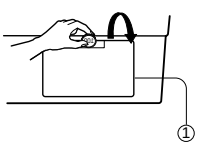
① Unscrew 2 screws from the bracket.
② Push the motor in the arrow direction for disassembling.
③ When reassembling the motor, make sure that motor mounting bushings are not taken off from the bracket.



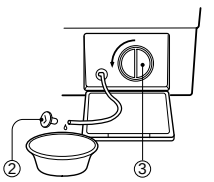
(DAMPER)

① Pull out the hinge, pressing its snap.
② Do not use the pulled - out hinge again. It may be taken off during operation.

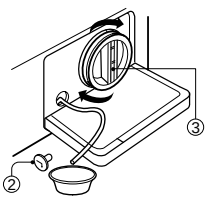
Clean the drain pump filter



Open the lower cover cap (①) by using a coin. Turn the drain plug (②) to pull out the hose.



Unplug the drain plug (②) , then the water flows out,
At this time use a vessel
To prevent water from flowing on the floor. If the water does not flow any more,turn the pump filter (③) open to the left.



Take out any foreign material from the pump filter (③). After cleaning, turn the pump filter(③) clockwise and insert the drain plug (②)to the original place. close the lower cover cap.

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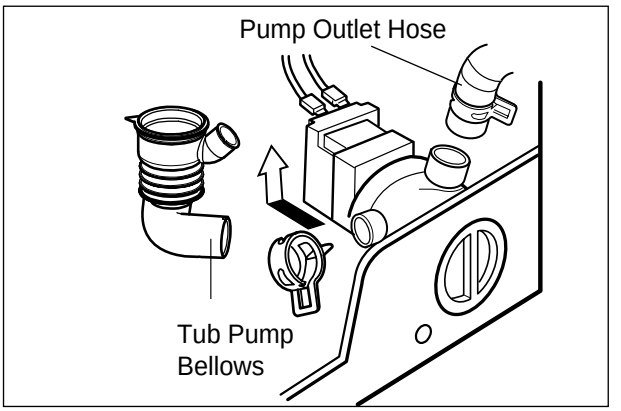
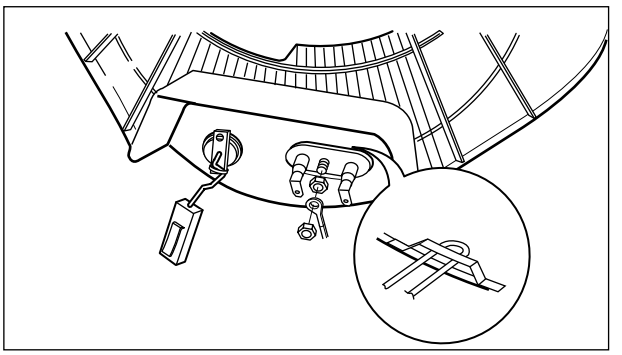
PUMP



① Remove pump outlet hose.
② Remove tub pump bellows.
③ Remove cap (Remaining Hose.)
④ Disconnect the wiring.
⑤ Unscrew 2 screws.
⑥ Remove the pump.

HEATER

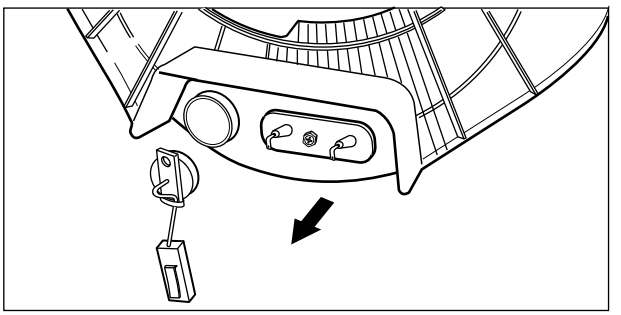


① Loosen the M6 heater nut to pull out the heater.

CAUTION

When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

THERMISTOR



① Pull it out by holding the thermistor bracket.
* If it is pulled by the wire, it may be broken.
② When mounting the thermistor again, make sure that it is got back tight to the bushing.

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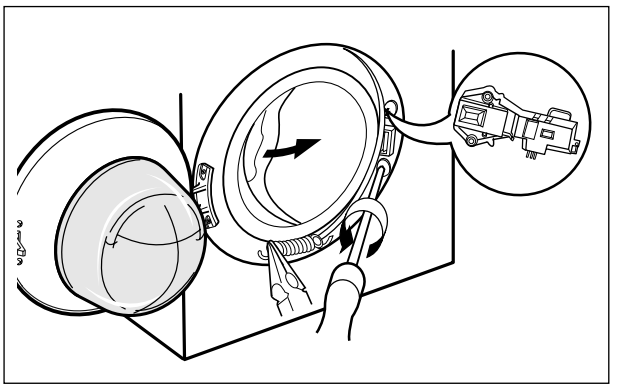
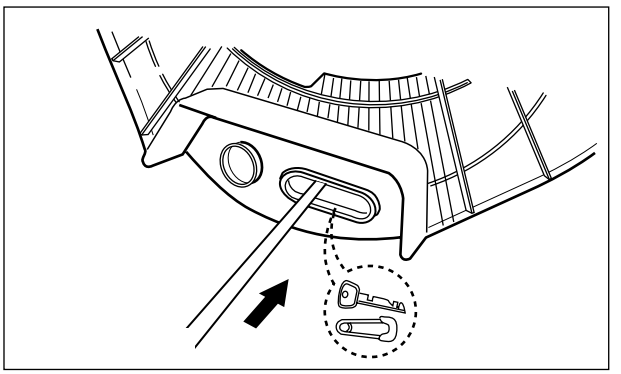
SWITCH ASSEMBLY, DOOR LOCK



① Take apart the cabinet cover clamp and release the gasket.
② Unscrew 2 screws holding the door lock.
③ Disconnect the door lock from the wiring connector.

WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB



① Remove the heater.
② Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

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QC MODE CHECK FUNCTION

Push the Power Key when push the Time and Option 1 Key(Rinse+,Prewash) at the same time. The Buzzer work 2 times and the program go into TEST MODE.
You can see the Display from the window(Ex.18:A1 etc…)

			Worldwide	Australia
LOOK	Size	rpm	Display	Display
Konsul_best1 (rotary) 1000RPM	360mm	1000rpm	18:A1	18：E1
	440mm	1000rpm	18:A6	18：E6
	550mm	1000rpm	18:Ab	18：Eb
Konsul_best2 (rotary) 800RPM	360mm	800rpm	18:b0	18：H0
	440mm	800rpm	18:b5	18：H5
	550mm	800rpm	18:bA	18：HA
Konsul_better1 (tect) 1000RPM	360mm	1000rpm	18:C1	18：F1
	440mm	1000rpm	18:C6	18：F6
	550mm	1000rpm	18:Cb	18：Fb
Konsul_better2 (tect) 800RPM	360mm	800rpm	18:d0	18：L0
	440mm	800rpm	18:d5	18：L5
	550mm	800rpm	18:dA	18：LA

-1200RPM Worldwide

LOOK	Size	rpm	表示
Konsul_best1 (rotary) 1200RPM	360mm	1200rpm	18：A2
	440mm	1200rpm	18：A7
	550mm	1200rpm	18：AC
Konsul_better1 (Tact) 1200RPM	360mm	1200rpm	18：C2
	440mm	1200rpm	18：C7
	550mm	1200rpm	18：CC

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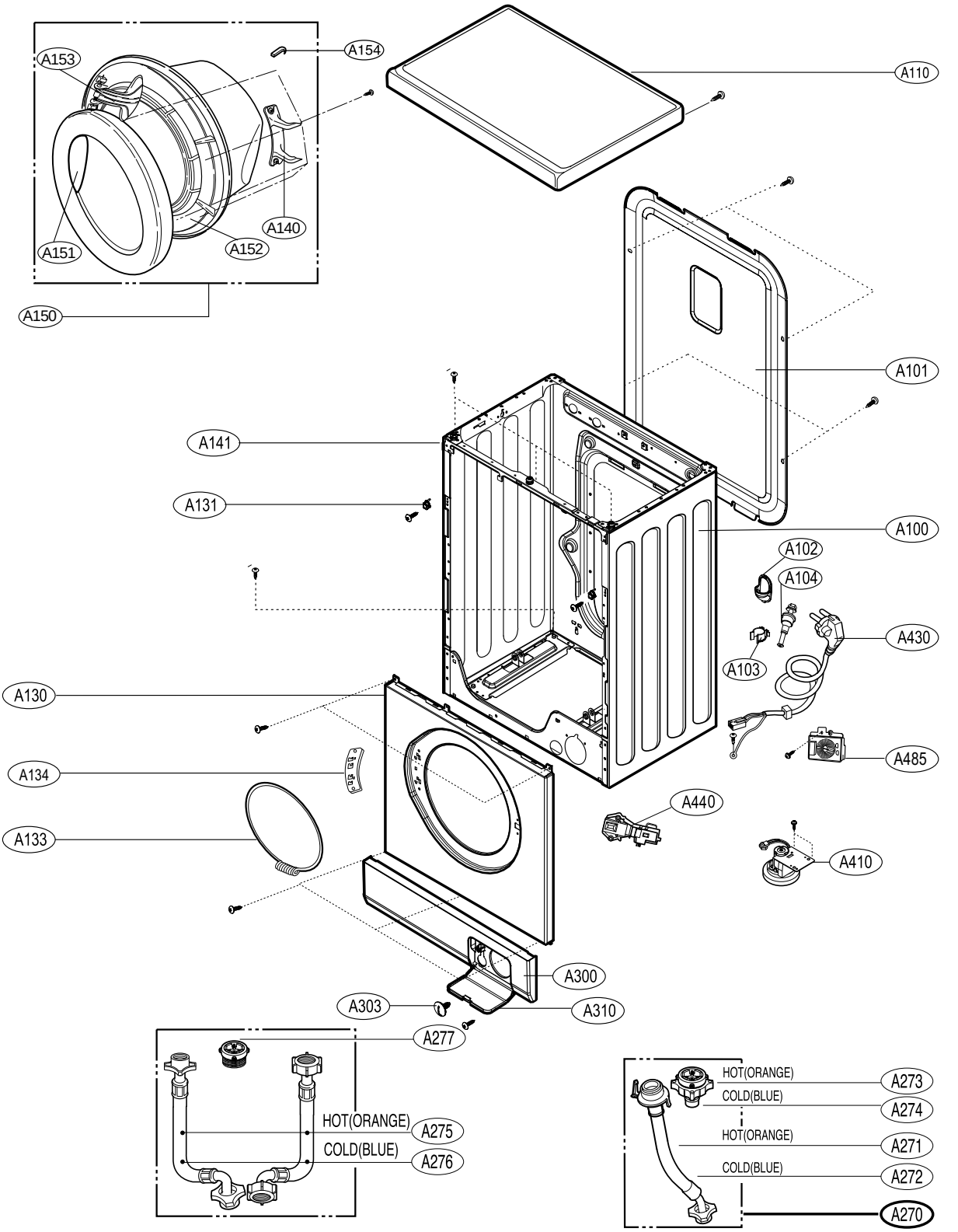
10. EXPLODED VIEW

10-1.THE EXPLODED VIEW OF CABINET ASSEMBLY



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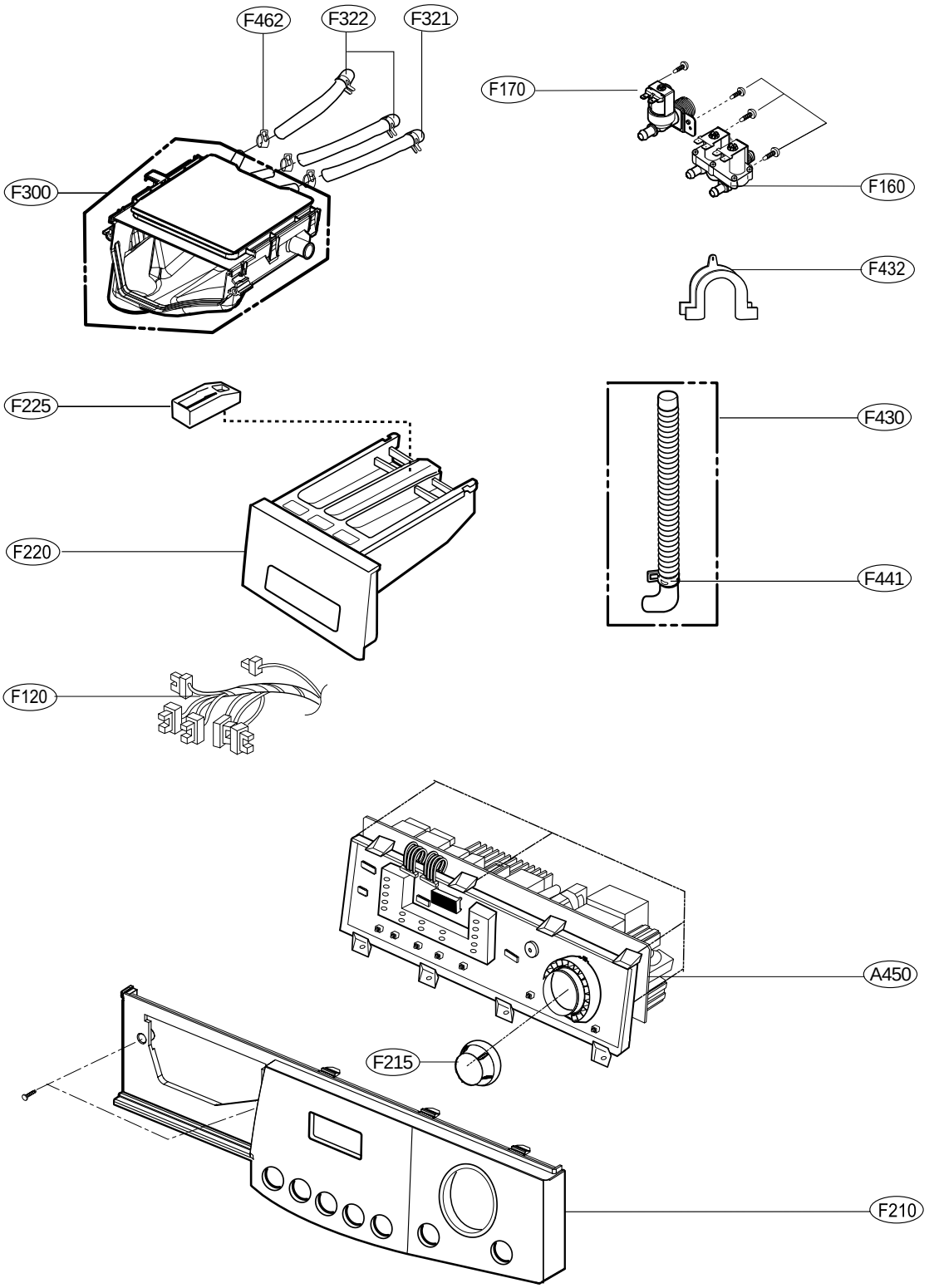
10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSEMBLY



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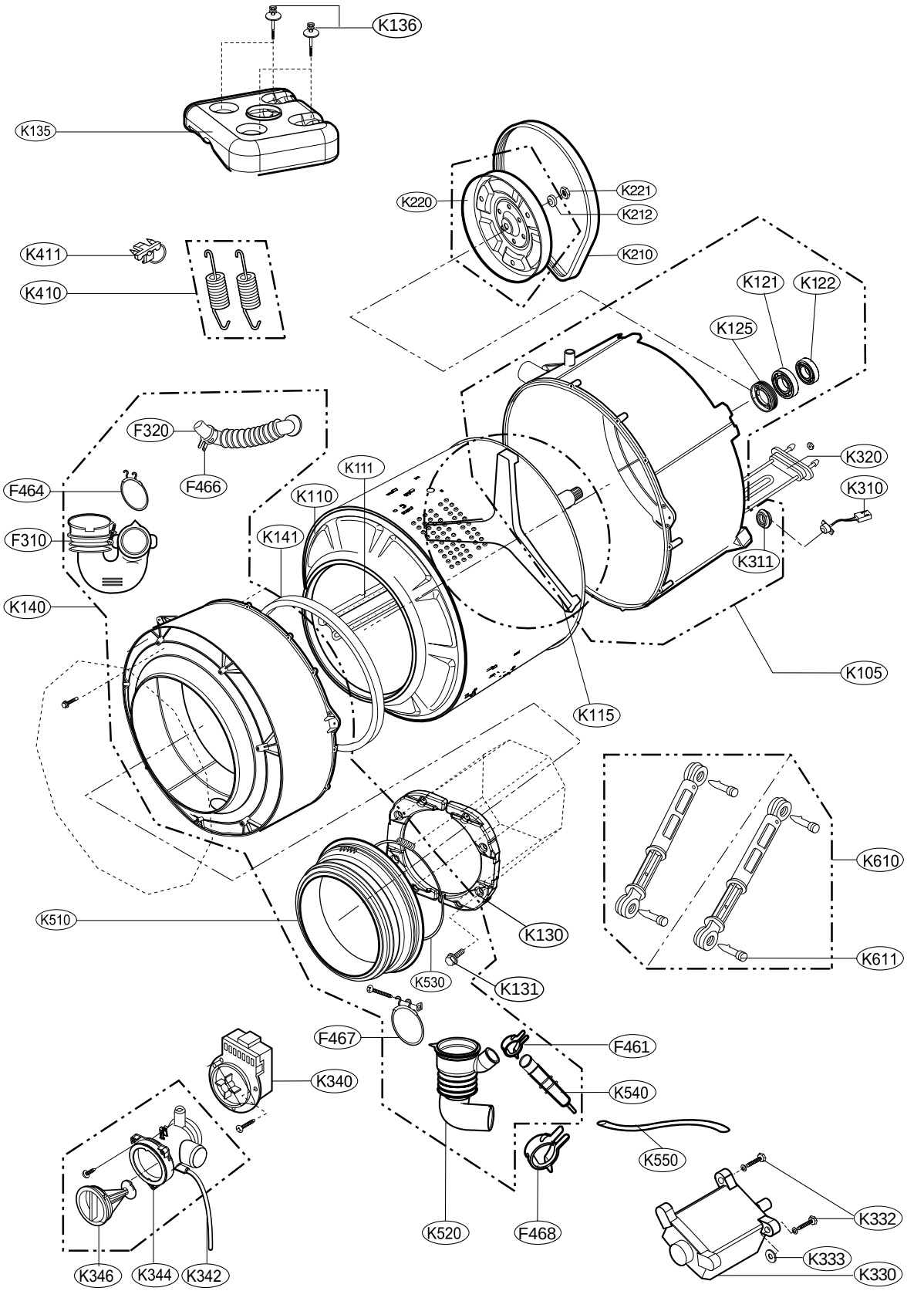
10-3 THE EXPLODED VIEW OF DRUM & TUB ASSEMBLY



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